

# hopeSunHV 250KTL



## FEATURES

### High-efficiency

- 12 MPPTs with Max. efficiency 99.01%
- Compatible with 500Wp + bifacial modules
- Highly-precise intelligent string detection

### Reliability

- Built-in Type II DC&AC SPD
- Built-in PID recovery function (optional)
- Compatible in harsh environmental conditions

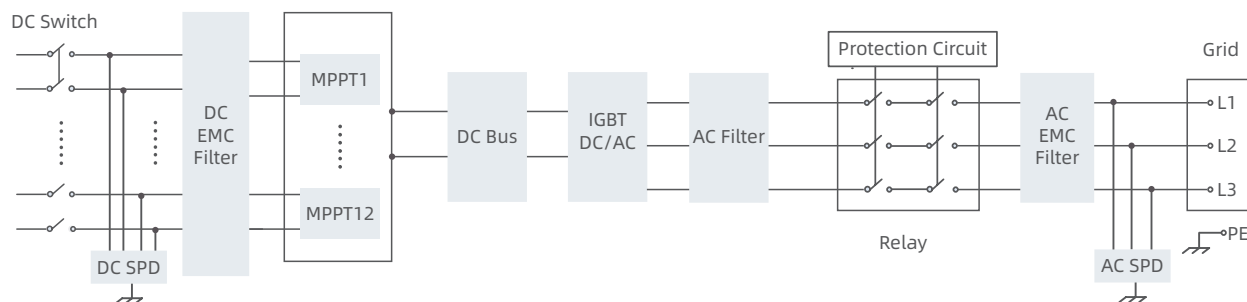
### User Friendly

- Active and reactive power regulation
- Compatible with weak grid situation
- Remote firmware upgrade

### Low Cost

- Compatible with Aluminium cable
- PLC communication to reduce cost
- Night SVG function (optional)

## TOPOLOGICAL GRAPH



## PARAMETERS

| Model                              | hopeSunHV 250KTL                  |
|------------------------------------|-----------------------------------|
| <b>DC Input</b>                    |                                   |
| Max. PV Input Power                | 375kW                             |
| Max. Input Voltage                 | 1500V                             |
| Starting Voltage                   | 500V                              |
| MPPT Voltage Range                 | 500 ~ 1500V                       |
| MPPT Range Full Load               | 820 ~ 1320V                       |
| Max. Input Current Per MPPT        | 12 * 30A                          |
| Max. Short-circuit Current         | 12 * 45A                          |
| Number of DC Inputs                | 12 * 2                            |
| Number of MPP Trackers             | 12                                |
| <b>AC Output</b>                   |                                   |
| Rated Output Power                 | 250kW                             |
| Max. Output Power                  | 255kW                             |
| Rated Output Voltage               | 800V (3P + PE)                    |
| Operating Voltage Range            | 680 ~ 880V                        |
| Rated Output Current               | 180.4A                            |
| Max. Output Current                | 184A                              |
| Rated Grid Frequency               | 50Hz / 60Hz                       |
| Power Factor                       | >0.99 (0.8 leading ~ 0.8 lagging) |
| Harmonic (THD)                     | <3% (at rated power)              |
| <b>Efficiency</b>                  |                                   |
| Max. Efficiency                    | 99.01%                            |
| European Efficiency                | 98.52%                            |
| <b>Protection</b>                  |                                   |
| Surge Protection                   | DC type II / AC type III          |
| Insulation Impedance Detection     | Yes                               |
| Residual Leakage Current Detection | Yes                               |
| PV String Fault Detection          | Yes                               |
| PV Reverse Polarity Protection     | Yes                               |
| Anti-Islanding Protection          | Yes                               |
| Output Overcurrent Protection      | Yes                               |
| DC Switch                          | Yes                               |
| <b>General Parameters</b>          |                                   |
| Dimensions (W*H*D)                 | 1090*809*337.5mm                  |
| Weight                             | ≤115kg                            |
| Protection Degree                  | IP66                              |
| Operating Temperature Range        | -25 ~ +60°C                       |
| Cooling System                     | Smart air cooling                 |
| Standby Power Consumption          | <10W                              |
| Topology                           | Transformerless                   |
| Operating Altitude                 | 4000m (>3000m derating)           |
| Display                            | LED indicator                     |
| Communication                      | RS485 / PLC                       |
| DC Connection Type                 | MC4                               |
| AC Connection Type                 | OT / DT terminal                  |